

NOTES ON THE DISTRIBUTION AND BIOLOGY OF CERTAIN BUPRESTIDAE (COLEOPTERA): PART I

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ABSTRACT

Biological and distributional data are presented for certain species in the following genera of Buprestidae: *Hippomelas*, *Melanophila*, *Chrysobothris*, *Polycesta*, *Acmaeoderoides*, and *Agrilus*.

These notes are based on collections made in Southern California from 1965 through 1973, by Mr. V. Lukson and me. All specimens are currently in my collection.

Hippomelas (Prasinalia) imperialis Barr 1969: J. Kansas Ent. Soc. 42:321-335. This attractive species was collected on *Eriogonum deserticola* Wats, CALIFORNIA: Imperial Co., 5 mi. W. of Glamis, 17-VI-73 (7).

Melanophila pini-edulis Burke 1908: Proc. Ent. Soc. Washington 9:117-118. This species was recorded from the Pinyon Flats area of the San Jacinto Mountains in Southern California (Nelson 1962); 8 specimens were collected in the San Gabriel Mountains on *Pinus monophylla* Torr. and Frem., CALIFORNIA: San Bernardino Co., Wrightwood, 1-VII-67 (6) and 6-VII-68 (2).

Chrysobothris deleta LeConte 1859: American Phil. Soc. Trans. 11:255. This species was collected on *Cassia armata* Watson, CALIFORNIA: San Bernardino Co., 6-16 miles N.E. of Red Mountain, 27-V-72 to 28-V-72 (11).

Chrysobothris bisinuata Chamberlin 1938: Pan-Pacific Ent. 14:13. Three specimens were beaten from small branches of *Cercocarpus betuloides* Nutt. ex. T. and G., CALIFORNIA: San Bernardino Co., Etiwanda, 29-V-73 (2), and 16-VI-73 (1).

Chrysobothris bacchari Van Dyke 1923: Brooklyn Ent. Soc. Bull. 18:38-40. Nelson (1962) recorded collecting this species from the San Jacinto Mountains on *Baccharis sergiloides* Gray, which extended the known range southward by several hundred miles. A pair was collected on *Baccharis sergiloides* Gray, CALIFORNIA: San Diego Co., Jacumba, 3-VII-65 (2) thus furthering the southward extension by another 100 miles.

Chrysobothris piuta Wickham 1903: Canadian Ent. 35:67-69. This attractive species was collected by beating dead branches of *Cercocarpus betuloides* Nutt. ex. T. and G., CALIFORNIA: San Bernardino Co., Etiwanda, 16-VI-73 (3).

Chrysobothris atrifasciata Leconte 1860: American Phil. Soc. Trans. (1859) 11:240. Fourteen specimens of this colorful species have been collected over a 5 year period on *Atriplex* sp., CALIFORNIA: San Bernardino Co., Victorville, 13-VII-68 (1), 4-VII-70 (7), 26-VI-71 (2), and 1-VII-72 (4).

Polycesta flavomaculata Nelson 1960: Coleopterists Bull. 14:30-32. On 5 December 1966, I made a trip to the type locality of *Polycesta flavomaculata* in the San Jacinto Mountains of Southern California. After examining numerous trees of *Quercus dumosa* Nuttall, numerous buprestid larvae were found in the roots, trunk, and branches of a tree which had recently died. Live adults of *Polycesta californica* LeConte were found in the branches. No live

adults of *Polycesta flavomaculata* Nelson were found, although dead, partially emerged specimens were found at the base of the trunk and in the roots. Wood was taken from the roots, trunk, and branches. The wood from the roots and trunk was placed in a container separate from that of the limbs. From 1967 through 1973 over 190 specimens of *Polycesta flavomaculata* emerged, most of which were taken from the container housing wood from the roots and trunk. This would seem to indicate that *Polycesta flavomaculata* works primarily in the roots and trunk. The earliest emergence occurred in April and the latest in September, with the majority (139) emerging during July. During the winter months of 1967 through 1973, I split some of the wood which was collected in 1966. Live adults of *Polycesta californica* were found, but no adult *Polycesta flavomaculata*. This would seem to indicate that, while *Polycesta californica* probably over-winters in the pupal cells as adults, *Polycesta flavomaculata* does not.

Acmaeoderoides humeralis (Cazier) 1938: Bull. Southern California Acad. Sci. 37:12. This little species was taken sweeping the blossoms of *Palafoxia*, CALIFORNIA: Riverside Co., Dos Palmas Rancho, 18-IV-73 (60).

Agrilus inhabilis Kerremans 1900: Ann. Soc. Ent. Belgique, 44:341. This attractive species seems to be uncommon in collections. Six specimens were collected on *Hymenoclea salsola* T. and G., CALIFORNIA: Riverside Co., Whitewater Canyon, 15-IV-72 (1) and 22-IV-72 (5).

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REFERENCE

- NELSON, G. H. 1962. Notes on the Buprestidae: Part III. Bull. Brooklyn Ent. Soc. 57:56-60.



BOOK NOTICES

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